

32-6447: IL12 Mouse, Sf9

Application : Functional Assay

Alternative Name : Interleukin 12 (subunit beta/alpha), IL12b/IL12a, IL-12b/IL-12a, IL-12p40/IL-12p35, IL12p40/IL12p35, p40/p35, Sf9.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered clear solution.

interleukin 12 subunit beta/alpha or IL12b/IL12a is a growth factor cytokine which increases the lytic activity of NK/lymphokine-activated killer cells, activated T and NK cells and prompt IFN-gamma production (through resting PBMC). IL12b/IL12a is a crucial part to the process of cellular-immunity and activates the differentiation of Th1 cells originates from the precursor T helper cells. The protein is linked to IL23A and creates the IL-23 interleukin, by that, the autoimmune inflammation is induced and autoimmune inflammatory diseases and tumorigenesis are being affected.Â

IL12 Mouse Recombinant produced in a baculovirus expression system is a glycosylated disulfide linked (through cysteines in bold) heterodimer comprised of IL12A (23-335aa, total of 319 aa, MW 35.7kDa) and IL12B (23-215aa, total of 199 aa, MW 22.5kDa), having a total predicted molecular mass of 58.3kDa (Molecular weight on SDS-PAGE will appear higher). IL12A is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : IL12 protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Amino Acid : IL12B(p40)MWELEKDVYV VEVDWTPDAP GETVNLCTDT PEEDDITWTS DQRHGVIGSG KTLTITVKEF LDAGQYCHK GGETLSHSHL LLHKKENGIW STEILKNFKN KTFKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS RAVTCGMASL SAEKVTLQDR DYKYSVSCQ EDVTCPTAEETLPIELALEA RQQNKYENYS TSFFIRDIIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNVCV QAQDRYYNSS CSKWACVPCR VRSIL12A(p35)RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSCTA EDIDHEDITR DQTSTLTKCL PLELHKNESE LATRETSSTT RGSLPPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHNHQQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRVVTINRVMGYL SSAHHHHHH. Â

Application Note

The activity is determined by the IFN-g ELISA in a using NK-92 human natural killer cells. The ED50 for this effect is less or equal to 10ng/ml.